

09/936964
Rec'd PCT/PTO 18 SEP 2002

SEQUENCE LISTING

<110> St Vincent's Hospital Sydney Limited

<120> Anti-p53 Antibodies

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<160> 60

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cca gga cag cct cct aaa ctg ctc att tac tgg gcg tct acc cgg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225

gat ttc act ctc acc atc acc agc ctg cag gct gaa gat gtg gca 270

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gag tgg atg gga gtg atc aat cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
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gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
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cca gga cag cct cct aag cta ctc att cac tgg gca tct acc cgg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct gag aca 225

gat ttc act ctc acc atc agc agc ctg cag gct gag gat gtg gca 270

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gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
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cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
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gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180

gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225

acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270

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cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
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gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135

cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180

caa tcc ggt gtc cct gac cga ttc cgt ggc agc ggg tcc ggg aca 225

gat ttc act ctc acc atc acc aac ctg cag gct gaa gat gcg gcg 270

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gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135

cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180

caa tcc ggt gtc cct gac cga ttc cgt ggc agc ggg tcc ggg aca 225

gat ttc act ctc acc atc acc aac ctg cag gct gaa gat gcg gcg 270

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gag tgg atg gga ata atc aat cct agt ggt gga agt gcg ggc tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135

cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225

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gag tgg atg gga gtg atc aat cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270
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tac aat tcc aac agt aag aac tac tta gct tgg tac cag cag aaa 135

cca gga cag cct cct aaa ctt ctc att tac tgg gca tct acc cgg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225

gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270

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ggc cag tat ata cac tgg gtg cga cag gcc cct gga caa ggg ctt 135

gag tgg atg gga gtg atc aac cct agt ggt gga agc gca aac tac 180

gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225

acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270

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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135

cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225

gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270

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gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
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cca gga cag cct cct aag cta ctc att cac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct gag aca 225
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cca gga cag cct cct aaa ctg ctc att tac tgg gcg tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc acc agc ctg cag gct gaa gat gtg gca 270
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ggc cag tat ata cac tgg gtg cga cag gcc cct gga caa ggg ctt 135

gag tgg atg gga gtg atc aat cct agt ggt gga agc gca aac tac 180

gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225

acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270

acg gcc gtg tat tac tgt ctt tca cag gcc ctg aag tat tgg ggc 315

cag gga acc ctg gtc gcc gtc tcc tca 342

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cca gga cag cct cct aaa ctt ctc att tac tgg gca tct acc cgg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225

gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270

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gag tgg atg gga gtg atc aac cct agt ggt gga agc gca aac tac 180

gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225

acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270

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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135

cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180

gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225

gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270

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gaa tgg atg ggc ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg agg ttc aag ggc aga ctc tcc atg tcc agg gac tcg tcc 225
acg gac aca gct tac ttg aca ttg acc agc ctg aca tcc gaa gac 270
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cat agg aat gga tac aac tat ttg gat tgg tac ctg cag aag cca 135

ggg cag tct cca caa ctc ctg atc tat ttg ggt tct act cgg gcc 180

tcc ggg gtc cct gac aga ttc agt ggc agt gga tca ggc aca gat 225

ttt aca ctg aac atc aga aga gtg gag gct gag gat gtt ggg gtt 270

tat tat tgc atg caa ggt cta caa acg cca tac act ttc ggc gaa 315

ggg acc aag gtg gag atc aaa 336

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 30
<211> 354
<212> DNA
<213> Human

<400> 30

gtg cag ctg ctc gag tct ggg gga ggc tta ata cag cca ggg cg 45
tcc ctg aga ctc tca tgt aca gcc tct gga ttc ccc ttt ggt gat 90
tct gct atg acc tgg ttc cgc cag gct cca ggg aag ggg ctg gag 135
tgg gtg ggt ttc att aga agc aaa gct tat ggt gcg gca aca gca 180
tac gcc gcg tct atg aaa ggc aga gtt acc atc tca aga gat gat 225
gcc aaa agt atc gcc tat ctg cac atg agc aga ctg aag atc gag 270
gac aca gcc gtt tat ttc tgt agt aga gtg aaa gca ggg ggc cct 315
gac tac tgg ggc cag gga acc ctg gtc acc gtc tcc tca 354

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 31
<211> 114
<212> Amino Acid
<213> Human

<400> 31

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Asn Gln Ser Val Leu
20 25 30

Tyr Asn Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 32
<211> 114
<212> Amino Acid
<213> Human

<400> 32

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Met	Lys	Arg	Pro	Gly
1										10				15
Ala	Ser	Val	Thr	Ile	Ser	Cys	Gln	Ala	Ser	Arg	Gln	Thr	Phe	Ser
										25				30
Gly	Gln	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu
										35				45
Glu	Trp	Met	Gly	Val	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Ala	Asn	Tyr
										50				60
Ala	Pro	Ser	Phe	Gln	Gly	Arg	Leu	Ser	Met	Ser	Arg	Asp	Ala	Ser
									65				75	
Thr	Asn	Thr	Val	Tyr	Met	Lys	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp
										80			85	
Thr	Ala	Val	Tyr	Tyr	Cys	Leu	Ser	Gln	Ala	Leu	Lys	Tyr	Trp	Gly
										95			100	
Gln	Gly	Thr	Leu	Val	Ala	Val	Ser	Ser						
									110					

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	33
<211>	113
<212>	Amino Acid
<213>	Human

<400> 33

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 34
<211> 114
<212> Amino Acid
<213> Human

<400> 34

Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ala
1 5 10 15

Ser Val Thr Ile Ser Cys Arg Ala Ser Arg Gln Asp Phe Ser Gly
20 25 30

Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu
35 40 45

Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr Ala
50 55 60

Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser Thr
65 70 75

Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp Thr
80 85 90

Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly Gln
95 100 105

Gly Thr Leu Val Ala Val Ser Ser Ala
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 35
<211> 113
<212> Amino Acid
<213> Human

<400> 35

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ala Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Leu Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile His Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Glu Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Tyr Thr Thr Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 36
<211> 114
<212> Amino Acid
<213> Human

<400> 36

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 37
<211> 113
<212> Amino Acid
<213> Human

<400> 37

Ala Ala Glu Leu Thr Gln Ser Pro Glu Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Thr Pro Leu Thr Phe Gly
95 100 105

Gly Gly Thr Lys Val Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 38
<211> 114
<212> Amino Acid
<213> Human

<400> 38

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 39
<211> 113
<212> Amino Acid
<213> Human

<400> 39

Ala Ala Glu Leu Thr Gln Ser Pro Glu Ser Leu Ala Val Ser Leu
1 5 10 15

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
 35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55

65 70 75

80 85 90

Val Tyr Tyr Ser Ser Val Val Arg Lys Thr The Gly
95 100 105

110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	40
<211>	114
<212>	Amino Acid
<213>	Human

<400> 40

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly

Gln Gly Thr Leu Val Ala Val Ser Ser

110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 41
<211> 113
<212> Amino Acid
<213> Human

<400> 41

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Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
   1           5           10          15

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Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
 35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Gln Ser Gly Val Pro Asp Arg Phe Arg Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Thr Asn Leu Gln Ala Glu Asp Ala Ala
80 85 90

Asp Thr Ile Leu Thr Ile Thr Asn Leu Gln Ala Glu Asp Ala Ala
80 85 90

Ile Tyr Tyr Cys Gln Gln Tyr Tyr Gly Thr Pro Tyr Thr Phe Gly
 95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 42
<211> 114
<212> Amino Acid
<213> Human

<400> 42

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	43
<211>	113
<212>	Amino Acid
<213>	Human

<400> 43

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Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser 10 Leu Ala Val Ser 15
          1           5                           10           15

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Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
 20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
 35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Gln Ser Gly Val Pro Asp Arg Phe Arg Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Thr Asn Leu Gln Ala Glu Asp Ala Ala
80 85 90

Ile Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
 95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 44
<211> 114
<212> Amino Acid
<213> Human

<400> 44

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Gly Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 45
<211> 113
<212> Amino Acid
<213> Human

<400> 45

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Tyr Arg Thr Pro Leu Thr Phe Gly
95 100 105

Gly Gly Thr Lys Val Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 46
<211> 114
<212> Amino Acid
<213> Human

<400> 46

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Met Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Thr Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Val Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Ser Phe Gln Gly Arg Leu Ser Met Ser Arg Asp Ala Ser
65 70 75

Thr Asn Thr Val Tyr Met Lys Leu Ser Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Ser Gln Ala Leu Lys Tyr Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 47
<211> 113
<212> Amino Acid
<213> Human

<400> 47

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Asn Gln Ser Val Leu
20 25 30

Tyr Asn Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Thr Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 48
<211> 114
<212> Amino Acid
<213> Human

<400> 48

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Met Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Thr Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Val Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Ser Phe Gln Gly Arg Leu Ser Met Ser Arg Asp Ala Ser
65 70 75

Thr Asn Thr Val Tyr Met Lys Leu Ser Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Ser Gln Ala Leu Lys Tyr Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	49
<211>	113
<212>	Amino Acid
<213>	Human

<400> 49

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
 1 5 10 15

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
 35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe
95
Gly Gly Thr Lys Val Glu Ile Lys

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 50
<211> 114
<212> Amino Acid
<213> Human

<400> 50

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Arg Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Glu Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Gly Pro Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 51
<211> 114
<212> Amino Acid
<213> Human

<400> 51

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ala Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Leu Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile His Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Glu Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	52
<211>	114
<212>	Amino Acid
<213>	Human

<400> 52

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
 1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
 20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp>
 80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 53
<211> 113
<212> Amino Acid
<213> Human

<400> 53

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Asn Gln Ser Val Leu
20 25 30

Tyr Asn Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	54
<211>	114
<212>	Amino Acid
<213>	Human

<400> 54

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 55
<211> 113
<212> Amino Acid
<213> Human

<400> 55

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Asn Gln Ser Val Leu
20 25 30

Tyr Asn Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Thr Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 56
<211> 114
<212> Amino Acid
<213> Human

<400> 56

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Met Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Thr Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Val Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Ser Phe Gln Gly Arg Leu Ser Met Ser Arg Asp Ala Ser
65 70 75

Thr Asn Thr Val Tyr Met Lys Leu Ser Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Ser Gln Ala Leu Lys Tyr Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 57
<211> 113
<212> Amino Acid
<213> Human

<400> 57

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210>	58
<211>	114
<212>	Amino Acid
<213>	Human

<400> 58

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Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
      1           5           10          15

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Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asn Phe Ser
 20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
 50 55 60

Ala Pro Arg Phe Lys Gly Arg Leu Ser Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Ala Tyr Leu Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Phe Cys Leu Leu Gln Ser Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 59
<211> 97
<212> Amino Acid
<213> Human

<400> 59

Ala Ala Glu Leu Thr Gln Ser Pro Leu Ser Leu Pro Val Ile Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu
20 25 30

His Arg Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro
35 40 45

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Thr Arg Ala
50 55 60

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
65 70 75

Phe Thr Leu Asn Ile Arg Arg Val Glu Ala Glu Asp Val Gly Val
65 70 75

Tyr Tyr Cys Met Gln Gly Leu Gln Thr Pro Tyr Thr Phe Gly Glu
80 85 90

Gly Thr Lys Val Glu Ile Lys
95

<130> 451541

<150> Australia PP9321
<151> 19 March 1999

<210> 60
<211> 118
<212> Amino Acid
<213> Human

<400> 60

Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Ile Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Pro Phe Gly Asp
20 25 30

Ser Ala Met Thr Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Val Gly Phe Ile Arg Ser Lys Ala Tyr Gly Ala Ala Thr Ala
50 55 60

Tyr Ala Ala Ser Met Lys Gly Arg Val Thr Ile Ser Arg Asp Asp
65 70 75

Ala Lys Ser Ile Ala Tyr Leu His Met Ser Arg Leu Lys Ile Glu
80 85 90

Asp Thr Ala Val Tyr Phe Cys Ser Arg Val Lys Ala Gly Gly Pro
95 100 105

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
110 115